

LINCOLN
WELDERS

*This welder handles
every welding job!*

Lincoln 250 amp Idealarc



AC and AC/DC

Transformer-Rectifier Arc Welders

COMBINATION AC/DC MODEL

gives you both
AC and DC
welding current

STRAIGHT AC MODEL

provides generous
AC capacity
at moderate cost

Now...DC

as well as AC welding
for the shop with
**single phase
current**

HANDLES MORE JOBS at mo

**Low in price – exceptionally versatile
for a wide range of work**

DC Welding Current

to give you

- choice of electrode positive for penetration
- choice of electrode negative for high melt off
- easier vertical and overhead welding
- top quality sheet metal welding

AC Welding Current

for

- higher currents on larger electrodes where arc blow is a problem
- iron-powder electrodes for high speed welding
- torch heating with carbon arc torch

Both AC and DC are needed

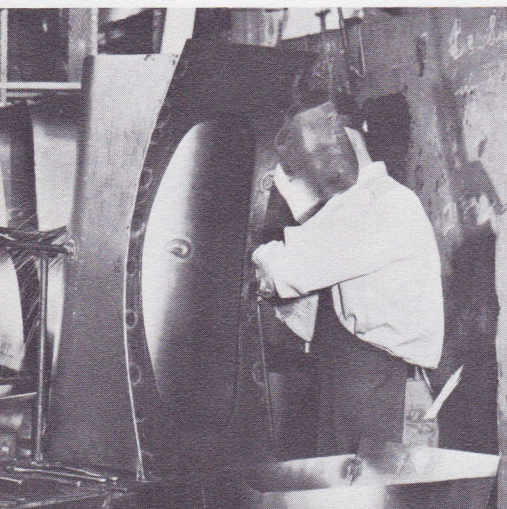
For fast production welding, for speedy maintenance, for quality fabrication of sheet metal, you need a welder that gives you *both* AC and DC welding current ... at the flip of a switch. Idealarc is that kind of a welder. Yet Idealarc costs no more to buy, no more to operate than a traditional DC machine.

Now for the first time, the shop with only single phase current can have DC as well as AC welding. This means the smaller shop, the garage, the body shop can realize all the advantages of DC...plus the speed of AC.

Certain types and sizes of electrodes work best on DC. Other sizes and other types of electrodes operate better on AC. With Idealarc, you have immediate selection of AC or DC, whichever gives you the best speed, best weld, lowest cost of weld ... on *your* job.

With Idealarc you also have unlimited ability to weld all materials ... carbon, high alloy and stainless steels; aluminum, bronze, cast iron; plus hardsurfacing, cutting metal, brazing, torch heating and soldering.

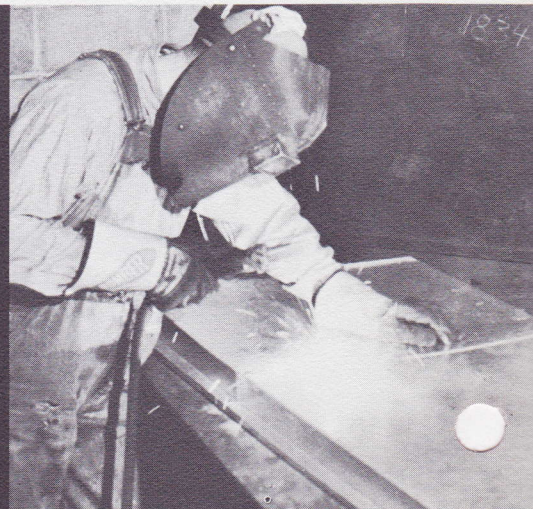
Only Idealarc has all these money-saving advantages of AC or AC/DC ... plus rugged industrial construction to give continuous, reliable service.



For quality welds on sheet metal, use DC.

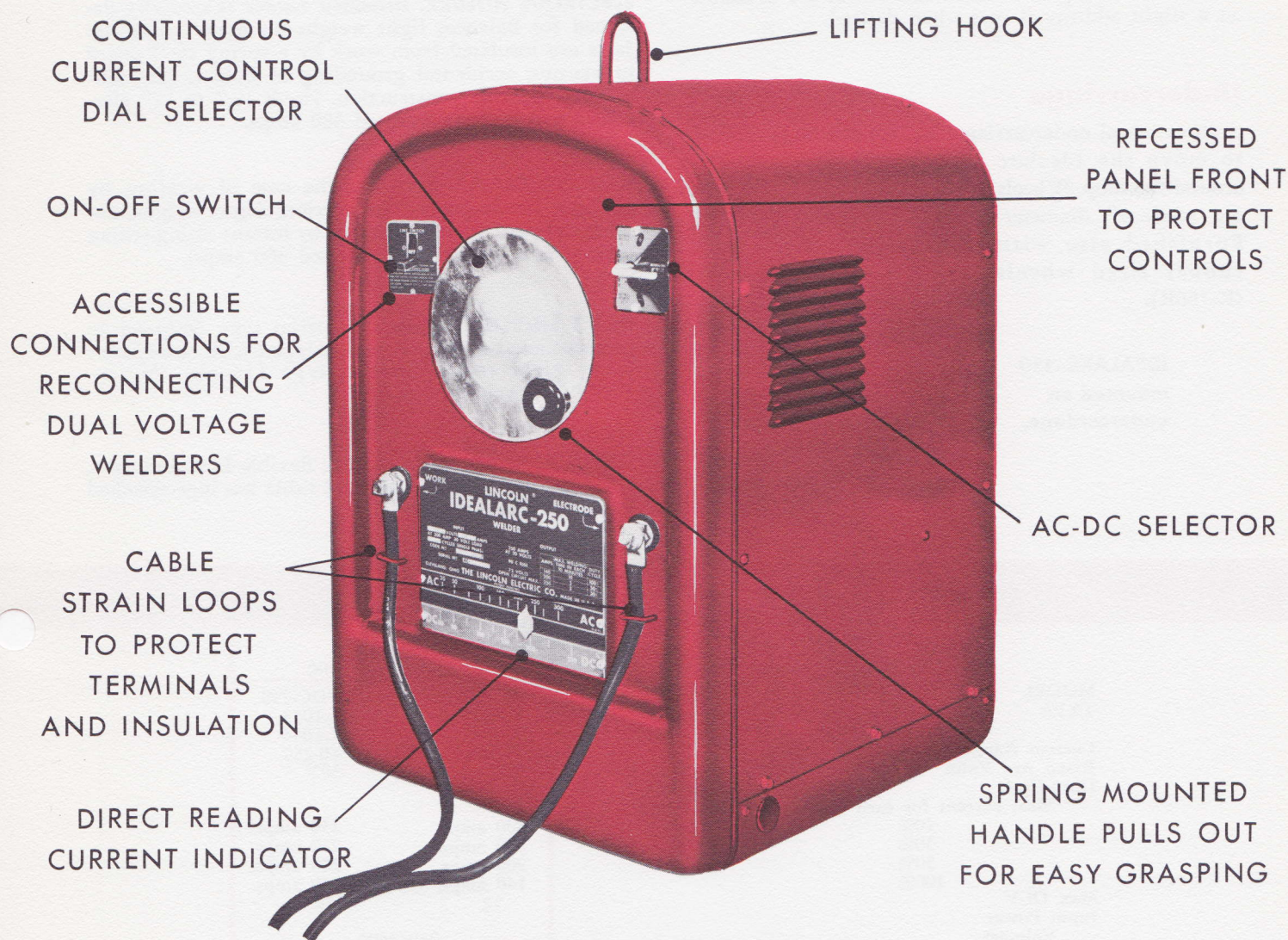


For high speed welding with iron powder electrodes, use AC.



For smooth stainless steel welding, use DC.

re profit for you!



N. E. M. A. RATED

Top of the Line. Idealarc 250's are Lincoln's best non-industrial welders in both capabilities and capacity. Combination AC/DC model is the only machine of its size to provide both AC and DC output. Straight AC model has substantially greater capacity than smaller machines, yet is moderately priced.

Continuous Dial-Type Control. Choose exactly the current you want for the job at hand. Settings are precise, easy to read and free of creep. Controls are rugged and maintenance-free.

Outstanding AC Arc Stability. Idealarc 250's design includes both an adequate open circuit voltage and an added stabilizer to provide popout-free operation of all AC electrodes, including those normally suitable only for industrial AC machines.

Silicon Rectifiers. The efficiency and freedom from aging in silicon diode rectifiers are well established facts. In addition, Lincoln provides large safety margins and unique protective circuits to prevent damage to the rectifiers by overvoltage conditions. The result is unsurpassed performance.

Overload Protection. The DC rectifier has a thermostatic disconnect which operates on current overload plus special circuits to prevent high voltages from reaching the rectifiers. In case of overload, the fan continues to cool the rectifier until it reaches normal temperatures.

Weather-Proof. For additional life, particularly in coastal salt air regions, these welders receive an extra insulation dip. Louvers prevent entry of rain or other falling liquids.

OPTIONAL FEATURES

(at slight extra cost)

Power Factor Condensers

Condensers for power factor correction are available at a slight additional cost when desired.

Undercarriage

A three wheel undercarriage (K-760) can be furnished to move the Idealarc around the shop. Wheels are steel, 9" diameter. Furnished also with rubber tired wheels (K-760R).

IDEALARC-250
mounted on
undercarriage.



Standard Accessory Sets

ELECTRODE HOLDER. Insulated holder is specially designed for balance; light weight for easier handling. Jaws are insulated from work by a spring steel guard preventing accidental grounding of holder. Has self-cooling, durable construction. Holds $\frac{1}{16}$ " to $\frac{1}{4}$ " electrodes and carbons... rated 300 amps.

GROUND CLAMP. Increases the ease of welding by giving a better ground connection. Light weight, durable, copper contacts, actuated by instant acting strong spring. Jaw spread $2\frac{3}{4}$ "... rated 300 amps.

HEAD SHIELD. Rugged, industrial type designed to protect face and ears. Comes equipped with non-spatter cover glass and industrial type Lincoln "Super-Visibility" welding lens.

CABLE. Electrode cable is extra flexible Lincolnductor, with one lug attached. Ground cable has lugs attached to each end.

SPECIFICATIONS

MODEL	
TYPE	60 cycle 50 cycle
Current Range, amps.	
Rated Arc Volts.	
Duty Cycle	
	Max. current for each given duty cycle rating:
	20%
	30%
	50%
	100%
Max. OCV	
Input Power	
Voltages	
Phase	
Cycles	
Input Wire Sizes (with condenser)	
230	
460	
Rated Input Current	
With Condenser	
Without Condenser	
Dimensions, overall, stationary	
Height	
Width	
Depth	
Weight, Net	
Shipping, Domestic	
Shipping, Export	
*Other voltages available on special order at extra charge.	

AC	DC
AC-250	AC/DC-250
K-1051	K-1053
K-1052	K-1054
35-300	40-250
30V	30V
300 amps.	250 amps.
250 amps.	250 amps.
200 amps.	200 amps.
140 amps.	140 amps.
72	70
	230/460*
	Single
	60 or 50
	# 6
	# 10
	50 amps.
	66 amps.
	30"
	20"
	21"
296	368
320	410
413	511

THE LINCOLN ELECTRIC COMPANY

The World's Largest Manufacturer of Arc Welding Equipment and Electrodes
CLEVELAND 17, OHIO

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WELDERS